



**JOURNAL OF THE
MINE VENTILATION SOCIETY
OF SOUTH AFRICA**

**INDEX
TO
VOLUME 40
1987**

1. PAPERS

	Page
Water	
Desalination of mine water Authors: R.D.C. Shone and R.C. Harries (March)	29
Heat and Temperature	
Air temperature increases in airways — further work Author: R. Hemp (January)	1
The effect of clothing on heat stress in mining environments Author: A.I. Murray-Smith (March)	37
The insulation of rock surfaces — an empirical study Authors: P. Bottomley and B. van Rensburg (April)	41
The measurement of heat flow in a backfilled stope Authors: M.K. Matthews, H.N. McCreadie and T.C.W. March (November)	142
Fans and Airflow	
Controlled recirculation of mine air in working districts Authors: R.D. Lee and I. Longson (February)	13
A discussion on the testing of production fans and the tolerances applied to measurement Author: J. Marples (February)	25
Scale model testing of Erfdeel Mine upcast shaft bend and fan drift Author: D.E. Wrigley (April)	49
Airflow patterns within advancing bord and pillar workings and their influence on airborne dust control Author: E.J. Meets (December)	158
Gases	
Controlled recirculation: its effect on blast contaminant decay Authors: N.A. Alexander, A.D. Unsted and K.C. Benecke (July)	85
Cooling	
Guidelines for the performance testing of surface bulk air coolers Authors: W.F. Gebler and R. Ramsden (May)	57
Optimum use of daily changes in wet-bulb temperature in the operation of surface pre-cooling towers Authors: S.J. Bluhm and G. Lancaster (May)	64
The development of an air cooler for use at the working face Authors: L. Feio, G. Lancaster, R. Ramsden and H. Jawurek (August)	98
A program for calculating the performance of a multi-stage horizontal spray chamber Author: J. Partyka (August)	104
Icing of cooling tower fills Author: B. Verwilghen (September)	120
Collieries	
The application of lightning warning systems on South African coal mines Authors: A. Stockhusen and W.J.J. Coetzer (February)	21
'n Globale oorsig van steenkoolmyn beplanning Skrywer: C.B.J. Reynolds (June)	73
Some experiences in the use of wetting agents to suppress dust at Sigma Colliery Authors: E.J. Meets and A.F. Neethling (October)	126
Airflow patterns within advancing bord and pillar workings and their influence on airborne dust control Authors: E.J. Meets (December)	158
Dust	
Some experience in the use of wetting agents to suppress dust at Sigma Colliery Authors: E.J. Meets and A.F. Neethling (October)	126

Fires

An analysis of underground fires in South African coal mines from 1970 to 1985 Authors: R. Morris and G.P. Badenhorst (October).....	134
---	-----

Noise

Die doeltreffendheid van gehoorbeskermers in 'n omgewing met 'n hoë geraaspeil Skrywer: W. von Pilz (April).....	46
---	----

General

Environmental control staff — the future challenge (Presidential address) Author: L.J.C. Pretorius (September).....	109
--	-----

2. MISCELLANEOUS

Branch Line.....	11,40,81,94
25 Years Ago.....	12,28,40,56,72,84,96,108,124,140,156,168
Solution to crossword puzzle.....	12
Shaft talk.....	36,54,71,83,95,108,123,140,156,167
New from the mines.....	39,82
Symposium.....	55
Obituary — Arvid Huss.....	72
Fourth International Mine Ventilation Congress.....	82
ASOSH.....	83
News from COM Research Organization.....	92
Personality: W.W.J. Viljoen.....	93
News from Council.....	96,122
Message from your editor.....	97
1986/7 Council.....	115
Fire Tunnel Commissioned.....	119
Profile: W. Holding.....	122
Message from your President.....	125
Council sub-committee issues computer software.....	141
President's Christmas message.....	157
President se Kersfees en Nuwejaarsboodskap.....	157
Pedal power and biscuits.....	164
Mine ventilation in the hereafter.....	165
Temperature and life.....	166

3. VISITS AND MEETINGS

Proceedings of the Annual General Meeting held on 10th June 1987.....	116
Workshop on hand-held programmable calculators held on 11th September 1987.....	133
Visit to Masauli Asbestos Mine on 9th November 1987.....	165

